



GANCUBE

GAN356 i 3 调试说明书



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魔方还原教程



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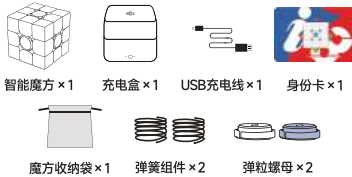
感谢选择 GAN 智能魔方

基本参数

产品尺寸	56×56×56mm	产品重量	84.4g±1g
电池类型	3.7V 锂电池	连接方式	无线连接
充电时长	2.5h	续航时长	约 15h*
USB电源适配器要求	5V 1A		
设备要求	支持iOS 9.0及以上版本、Android 4.4及以上版本的设备		

*实验室测试数据，实际续航时长视使用而定。

产品配置



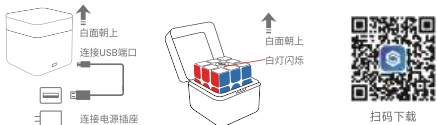
使用前必读

使用产品前请仔细阅读并妥善保存

- 首次使用激活方式：在3秒内沿同一方向转动白色面1圈以上，指示灯亮则激活成功。
- 本产品内置智能动态捕捉系统跟踪魔方动态，魔方各面的位置不可随意调换。
- 调试弹力时请勿左右晃动轴心，以免损坏内部电路。
- 充电时，魔方必须白色面朝上置入充电盒。

上手步骤

- 充电：使用普通充电盒版充电方式：将魔方白色面朝上插入充电盒，轻轻按压确保魔方插紧，关盖后，连接标配的USB充电线充电。
- 唤醒：在魔方有电的前提下，转动魔方任意面可唤醒魔方，白灯闪烁表示唤醒成功，唤醒后可连接APP查看电量。
- 连接：下载安装APP——“Cube Station”，开启手机蓝牙和APP，根据APP内提示连接魔方。



魔方状态/功能说明

魔方状态/功能	状态/功能说明	操作	指示灯状态 (指示灯位于魔方白面)
唤醒	唤醒状态下魔方可连接蓝牙设备	转动魔方任意面	白灯闪烁
休眠	休眠状态下魔方无法连接蓝牙设备	魔方超过1分钟未与设备连接将自动休眠	/
低电量	电量过低时魔方会自动休眠	使用配备的充电工具为魔方充电	白灯每10秒快闪三次
断开APP账号	魔方同一时间仅能与一台设备连接，连接状态下无法被其他设备搜索到	10秒内顺时针转动白面5圈或在APP内点击“断开”	白灯闪烁

磁力调试

GAN356 i 3 是全球头一款可变磁智能魔方，采用全新的磁力定位系统 GMS v4，在 12 个棱块上进行7挡调试，改变棱块与角块磁铁间的距离，距离越大，磁力越小。

• 7挡磁力

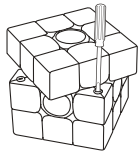
1 挡（齐平状态）：磁力最大



(每圈顺时针旋转1挡，磁力小1挡)

• 特别提醒：

第 7 挡后，虽仍有部分调磁空间，请勿继续旋转，以免损坏调磁结构。

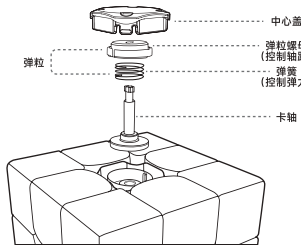


• 调试方法：

转动顶层45°，露出棱块变磁挡位，用小螺丝刀顺时针转动至目标挡位。

磁力调试

- 掀开中心盖。
- 取出弹粒：按压弹粒到底，旋转轴端卡针90°，弹粒弹出，缓慢松手，防止弹簧弹飞。
- 更换弹粒：放入新弹粒，反向步骤2，盖上中心盖完成更换。
- 依次更换剩余5面。



弹力参照表

• 弹力



• 轴距



螺母规格	弹簧规格	弹簧①	弹簧②	弹簧③
0.5 (透明)		2.1N	2.6N	3.2N
0.6 (透绿)		2.0N	2.5N (出厂配置)	3.1N
0.7 (透蓝)		1.9N	2.4N	3.0N

警告：请勿随意调换各面中心盖，以免影响APP识别魔方状态；调试弹力时请勿左右晃动轴心，以免损坏内部电路；调整弹力后需在APP上重置魔方。



磁力&弹力调试视频

注意事项

使用限制

- 智能魔方为精密电子产品，请勿拆解内核球轴，以免产品损坏。
- 请勿在黄色面加润滑油，否则可能导致无法充电。
- 本产品不能遭受冲击、遇水或置于高于60°C的环境。
- 本产品内含小零件，请勿给3岁以下儿童适用。
- 请严格按照说明书提示适用产品，避免因操作不当导致设备损坏或人身伤害。

电池及充电

- 请仅使用普通充电盒和USB线进行充电。充电前请确认充电设备完好无损。
- 魔方电量低时会自动进入休眠模式，请及时充电，以免数据丢失。
- 如果长时间不使用产品，请充满电后置于阴凉干燥处保存。长时间不充电会导致电池永久损坏，请确保至少每3个月充满电一次。

电池使用注意事项：

- 玩具使用1组3.7V锂电池（电池不能替换）。
- 充电电池只能在成人监护下充电。
- 充电器必须每月检查其电线、插头、外壳和其他部件是否损坏，发现损坏时应停止使用，直至修复完好。

其他注意事项：

- 玩具不能连接到多于推荐数量的电源上。
- 玩具只能使用推荐的变压器。
- 玩具清洁前应与变压器断开。
- 变压器不是玩具。



警告：

- 本产品含小零件，不适合3岁以下儿童使用。
- 产品上有功能性尖点。



故障排除

1. APP 无法检测到魔方？

- 请确认魔方电量充足。
- 请确认魔方处于唤醒状态。
- 如魔方已被其他设备连接，则需断开后才能被另一台设备检测到。
- 安卓设备请确认定位功能开，并已授予APP定位权限，以便被设备检测到。

2. APP 显示的魔方状态不同步？

- 请通过APP的重置功能重置魔方状态。
- 魔方电量低时，会自动休眠导致魔方状态无法同步，请尽快充电。
- 陀螺仪采集数据会累积偏差，导致APP显示的魔方状态不同步，此为原件物理特性，非产品质量问题。请在APP上拖动魔方，重新调整魔方朝向。

3. 无法充电？

- 请确认白色中心盖的位置未经调换，并白色中心盖朝上插入充电盒压紧。
- 当电量低时魔方会自动休眠，此时需要充电几分钟才能再次唤醒。
- 请尝试转动魔方整体朝向，再插入充电盒充电。

获取更多技术支持，请联系 support@gancube.com

产品中有害物质的名称及含量

部件名称	有害物质					
	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr(VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
魔方主体	○	○	○	○	○	○
电池	○	○	○	○	○	○
线缆	○	○	○	○	○	○
充电盒	○	○	○	○	○	○

本表依据SJ/T 11364的规定编制。

○：表示该有害物质在该部件所有均质材料中的含量均在GB/T 26572规定的限量要求以下。

×：表示该有害物质至少在该部件的某一均质材料中的含量超出GB/T 26572规定的限量要求，且目前业界没有成熟的替代方案，符合欧盟ROHS指令环保要求。



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GAN356 i 3 USER MANUAL

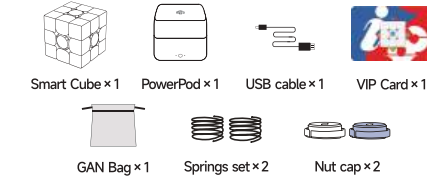
Thank you for choosing the GAN Smart Cube

SPECIFICATIONS

Product size	56×56×56mm	Product weight	84.4g±1g
Battery type	3.7V lithium	Connection	Wireless
Charging time	2.5h	Battery life	About 15h*
USB adapter	5V 1A		
Device requirement	IOS 9.0 Android 4.4 or above		

*Lab test data. Actual battery life subject to actual usage.

ACCESSORIES



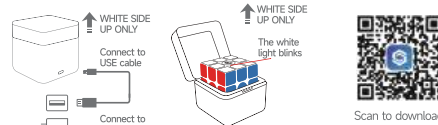
Read carefully before getting started

Keep manual well for future reference.

1. **Activation method for the first use:**
Rotate the white side in the same direction more than 1 turn within 3 seconds. If the indicator light is on, activation is successful.
2. The product contains a built-in motion tracking system to record moves on each side. DO NOT swap the center caps of each side.
3. DO NOT bend the core when adjusting tension, in case of damaging the internal circuit.
4. To charge the cube, ensure that the WHITE SIDE is facing upwards.

GETTING STARTED

- **How to charge:**
Charging by the basic PowerPod:
Put the cube into the PowerPod (WHITE SIDE UP ONLY). Please press gently to ensure the cube is firmly in place before connecting the PowerPod to a power source as shown.
- **How to awake:**
Turn any side of the cube to awake it. The white light will blink when successful awakening. The power level will be displayed in APP once per instructions in the APP.
- **How to connect:**
Download and install APP — "CubeStation". Enable your smart phone's Bluetooth function and open the APP. Connect the cube per instructions in the APP.



BASIC CUBE STATUS/FUNCTION

Cube Status/Function	Status/Function Instruction	Operation	Light Indicator (on the white side)
Awaken	The cube can connect to Bluetooth devices when in awaken mode.	Turn any side of the cubes.	White light blinks
Sleep	The cube can not connect to Bluetooth devices when in sleep mode.	Cube will automatically go off if the cube do not connect to any devices over 1 min.	/
Low-battery	The cube will automatically enter sleep mode when battery is low.	Use the charger and USB cable provided for charging only.	The white light blinks rapidly three times every 10 seconds.
Disconnect to APP	The cube can only connect one device at a time. Once connected, the cube cannot be detected by another device.	Rotate the white side clockwise for 5 rounds or using "disconnect" option in the APP can disconnect the cube.	White light blinks

MAGNET ADJUSTMENT

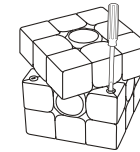
GAN356 i 3 is the first smart cube in the world which owns variable magnet. It adopts a brand-new magnet positioning system (GMS v4) that can adjust the magnet strength by adjusting the distance between the corner piece and edge piece. The larger the distance, the smaller the magnetic strength can be provided. Magnet adjustment is operated at the 12 edge pieces with 7 different magnet settings.

- 7 settings of magnet strength:
Setting 1 (flush position): maximum magnet strength



Each turn clockwise decreases the magnet strength by one grade.

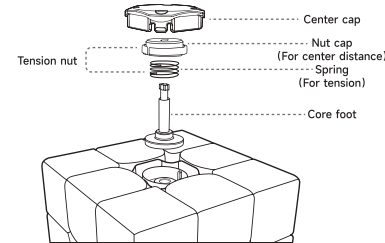
- **Special notice:**
There is still some space for magnet adjustment after the 7th grade, please DO NOT continue to rotate in case of damaging the structure of magnet adjustment.



- **Set up instructions:**
Turn the top layer 45° to expose the magnet slots on the edge pieces. Use the screwdriver to turn the magnet clockwise to the desired setting.

TENSION ADJUSTMENT

1. Open the center cap.
2. Press the tension nut to the bottom and turn the core foot 90° to the release position, then take out the tension nut. Release slowly to prevent the spring from popping out.
3. Swap in the new tension nut and set it up properly (reserve step 2 operations).
4. Repeat on other sides.



TENSION CHOICES

- Tension: Spring① < Spring② < Spring③
- Center Distance: Transparent < Green < Blue

Nut cap	Spring	Spring①	Spring②	Spring③
0.5 (Transparent)		2.1N	2.6N	3.2N
0.6 (Green)		2.0N	2.5N (Default Value)	3.1N
0.7 (Blue)		1.9N	2.4N	3.0N

Warning: DO NOT alter the positions of center caps, this will lead to synchronization problems. DO NOT bend the core when adjusting tension, to prevent damage of the internal electric. Resetting the cube is required after readjusting tension.

Video Instruction of Magnet & Tension Adjustment



MUST KNOWS

Usage restrictions

1. The smart cube contains electronic components. To prevent damage, DO NOT dismantle the core.
2. DO NOT lube the cube from yellow side.
3. DO NOT crash the product. Keep away from water of high temperature (≥60°C).
4. Product contains small parts, NOT suitable for children under 36 months
5. Strictly follow manual to avoid product damage or bodily harm.

Battery and Charging

1. Use the PowerPod and USB cable provided for charging only. Ensure they are in good condition before connecting to power.
2. Product shuts down automatically when battery is low. Please charge the cube appropriately to avoid loss of data.
3. Fully charge the cube at least once every 3 months to prevent permanent battery damage. Keep in dry and cool conditions if not in use.

Battery Usage Precautions:

1. The product operates with a fixed set of 3.7V lithium batteries that cannot be replaced.
2. Recharging of the batteries should only be done under the supervision of an adult.
3. Monthly inspections of the charger are mandatory to check for any damage to its wires, plug, casing, or other parts. If damage is detected, cease use immediately and do not use it again until it has been repaired.

Other Precautions:

1. The toy cannot be connected to more than the recommended number of power sources.
2. Toys may only be used with recommended transformers.
3. Toys should be disconnected from the transformer before cleaning.
4. Transformers are not toys.



TROUBLE-SHOOTING

1. Failure of detecting the cube by APP?

- ① Ensure the cube has been fully charged.
- ② Ensure the cube has been awakened.
- ③ Ensure the cube has not been connected already by another device.
- ④ Android users please ensure location access has been authorized to the APP.

2. Cube status failed to sync to APP?

- ① Reset the cube via "Reset Cube" functions in the APP.
- ② The cube will shut down when battery is low. Charge timely.
- ③ Gyroscope will accumulate detection bias over time. This is not malfunction. Please adjust cube position in APP from time to time to ensure synchronization. Drag the cube within the app to reorient it.

3. Failure of charging the cube?

- ① Ensure sides have not been altered from ex-factory positions and white side is facing upwards.
- ② When battery is too low it takes a few minutes to reach minimum wake-up battery level.
- ③ Make a whole rotation and put the cube in the PowerPod again.

More info. & supports: support@gancube.com

FCC Statement:

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions:

- ① This device may not cause harmful interference, and
- ② This device must accept any interference received, including interference that may cause undesired operation.

WARNING: CHOKING HAZARD

— Small parts. Not for children under 3 years.

